BRUHATH BANGALORE MAHANAGARA PALIKE
EXECUTIVE ENGINEER
YELAHANKA DIVISION

EMB

MODIFIED ESTIMATE

Name of Work: Development Works at Kempegowda Statue Premises in Kempegowda Ward No-01 of Yelahanka Sub Division.

Estimate Cost:- 25.00Lakhs

Name of Agency: Sri.Jagadish (Varun Kaarthick Constructions)

BRIHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer, Yelahanka Division

Name of Work: Development Works at K mpegowda Statue Premises in Kempegowda Ward No-01 of Yelahanka Sub Division

ABSTRACT OF BILL

Fist and Final Bill

Name of Agency: Sri.Jagadish (Varun Kaarthick Constructions)

Sl. No.	Description of work	Unit	Schedule-B Quantity	Present Measurement			Total UP-to-date		Remarks
				Qty	Rate Rs. & P.	Cost	Qty.	Cost	
1	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. Loading and Unloading of Stone Boulder/Stone aggregates/Sand/Kankar/Moorum. (Tipper 5.5 m3)	Cum	84.47	84.47	334.30	28238.01	84.47	28238.01	
2	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates	Cum	9.42	9.42	6109.40	57562.17	9.42	57562.17	
3	Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	19.38	19.38	5964.20	115586.20	19.38	115586.20	
4	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:3:6 (M10) Using 20 mm nominal size graded crushed coarse aggregates	Cum	0.00	0.00	6300.80	0.00	0.00	0.00	

Sl. No.	Description of work	Unit	Schedule-B Quantity	Present Measurement			Total UP-to-date		Remarks
				Qty	Rate Rs. & P.	Cost	Qty.	Cost	
5	Fabricating, providing and erecting in position of MS Hot Dip Galvanised Sq. Hallow Poles of 132 X 132 Heavy gauge of length 3000mm with MS. Hot dip Galvanised grill work as per approved design and drawing of chief architect. Using 12 X 75mm galvanised flat or alriound frame and 20 X 20mm galvanised forged design with square for vertical at 150mm c/c as shown in the drawing including providing forged ornamental arrow head at top and bottom. The work is inclusive of throughing flat, square rods, placing welding all the joints, including grinding, finishing 2 coats of anticorrosive paint over one coat of metal primer. The rate is inclusive of all materials like MS. Hollow galvanized pipe, flats, forged square rods, cost of labour for all items of work cost painting, welding, cutting, grinding with all lead and lift as per specification including loading and unloading with cost and conveyance of all materials, labour, machinery andincidental charges for the successful completion of the work as per the direction of the Engineer-in- charge of the work. (Data Rate)	Sqm	0.00	0.00	14606.72	0.00	0.00	0.00	
6	Fabricating, providing and erecting in position Hot Dip Galvanised Gate using 72 X 72 X 4.8mm Sq. GI Pipe Frame with Top pipe bending in heavy duty hydraulic press with sand packing and hot bending to form double arch as per drauUg profile, 20mm hot dip galvanised sq. rod for verticals at 150mm c/c, as shown in the drawing including providing hot dip galvanised forged ornamental design in between sq. rods and heads at top, middle and bottom. Intermediate supports of 75X 12 mm and 50X6 mm arch bend to hot dip galvanised flats. The work isinclusive of throughing GI flat GI Sq. rods, placing, welding the joints including grinding. finishing metal putty painting two coats enamal painting. The rate is inclusive of all materials like GI sq. pipe, GI sq. rods, GI forged désigns etc., heavy duty hinges are made out of 75mm solid sq. block assmbled with 20mm dia bearing in three places for each flop. heavy duty locking arrangements at tow places including cost of labour, painting, erecting charges using hoist pulley vranes with all lead and lift, loading, tmnsportetion, unloading, Scafiblding charges	Sqm	0.00	0.00	20036.97	0.00	0.00	0.00	
7	Providing and fixing of wall cladding using 20mm thick gang saw water cut Shiva gold granite, grey granite in CM 1:3 (1 cement : 3 coarse sand) proportion cut to required shape, pattern with paper joints, finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, making holes 25mmx12mm grooves in joints including cost of all materials, mortar, labour, curing etc., complete.	Sqm	0.00	0.00	3380.30	0.00	0.00	0.00	

Sl. No.	Description of work	Unit	Schedule-B Quantity	Present Measurement			Total UP-to-date		Remarks
				Qty	Rate Rs. & P.	Cost	Qty.	Cost	
8	Providing and fixing pre cast solid cement concrete kerb stones made out of M20 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete (Approved Rate)	Nos	0.00	0.00	507.00	0.00	0.00	0.00	
9	Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces	Sqm	0.00	0.00	93.50	0.00	0.00	0.00	
10	Cost of Haulage Excluding Loading and Unloading Taking output 10 t load and lead 10 km = 100 t.km	T.Km	158.16	158.16					
	Quantity Upto 125%	T.Km	108.48	108.48	198.00	21478.05	108.48	21478.05	
	Quantity above 125%	T.Km	49.68	49.68	210.00	10432.81	49.68	10432.81	
	EIRL-ITEMS								
E-1	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead (iii) Dismantling Brick / Tile work By Manual Means B In cement mortar (KPWD 2022-23, V-III Page No.8, Item No.2.9 B) Loading and Unloading of Stone Boulder/Stone aggregates/Sand/Kankar/Moorum. (Tipper 5.5 m3) (KPWD 2022-23, V-III Page No.3, Item No.1.1 A)	Cum	15.42	15.42	678.70	10466.05	15.42	10466.05	
E-2	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead ((iv) Dismantling Stone Masonry By Manual Means B Rubble stone masonry in cement mortar. (KPWD 2022-23, V-III Page No.8, Item No.2.10 B) Loading and Unloading of Stone Boulder/Stone aggregates/Sand/Kankar/Moorum. (Tipper 5.5 m3) (KPWD 2022-23, V-III Page No.3, Item No.1.1 A)	Cum	1.54	1.54	658.90	1016.07	1.54	1016.07	
E-3	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead I Lime /Cement Concrete By Manual Means B Cement Concrete Grade M-15 & M-20 (KPWD 2022-23, V-III Page No.8, Item No.2.7 B) Loading and Unloading of Stone Boulder,Stone aggregates/Sand/Kankar/Moorum. (Tipper 5.5 m3) (KPWD 2022-23, V-III Page No.3, Item No.1.1 A)	Cum	30.36	30.36	933.90	28356.96	30.36	28356.96	

Sl. No.	Description of work	Unit	Schedule-B Quantity	Present Measurement			Total UP-to-date		Remarks
				Qty	Rate Rs. & P.	Cost	Qty.	Cost	
E-4	Providing and Filling in foundation with granite / trap broken metal 100mm. and down size & with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. specification. No. KBS 2.10.2 (KWPD 2021-22, V-II, Item No.6.4) Issue Rates as on 21.04.2022	Cum	15.74	15.74	2817.10	44337.79	15.74	44337.79	
E-5	Providing and laying in position Reinforced cement concrete for all Foundation works. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticizers laid in finished layers, well compacted using needle vibrators, including all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) (KPWD 2022-23, V-I Page No.15, Item No.2.2.2.1)	Cum	25.11	25.11	6774.21	170070.60	25.11	170070.60	
E-6	Providing and laying in position Reinforced cement concrete for all Sub structures of Building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (KPWD 2022-23, V-I Page No.17, Item No.2.4.2)	Cum	1.14	1.14	11160.16	12722.58	1.14	12722.58	
E-7	Providing and laying in Reinforced cement concrete for all Basement & surface level works, return walls, retaining walls, sunken floors etc. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticizers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) (KPWD 2022-23, V-I Page No.16, Item No.2.3.1)	Cum	2.37	2.37	7221.28	17136.10	2.37	17136.10	

S. No.	Description of work	Unit	Schedule-B Quantity	Present Measurement			Total UP-to-date		Remarks
				Qty	Rate Rs. & P.	Cost	Qty.	Cost	
E-8	Providing and laying in position Reinforced cement concrete for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/ trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately) M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (KPWD 2022-23, V-I Page No.17, Item No.2.5.1)	Cum	4.16	4.16	10200.30	42412.85	4.16	42412.85	
E-9	Providing and laying in position Reinforced cement concrete for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/ trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately) M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (KPWD 2022-23, V-I Page No.17, Item No.2.5.1)	Cum	7.94	7.94	11560.34	91838.23	7.94	91838.23	
E-10	Providing and laying in position Reinforced cement concrete for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/ trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately) M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (KPWD 2022-23, V-I Page No.17, Item No.2.5.1)	Cum	17.63	17.63	10880.32	191852.68	17.63	191852.68	

Sl. No.	Description of work	Unit	Schedule-B Quantity	Present Measurement					Remarks
				Qty	Rate Rs. & P.	Cost	Qty	Cost	
E-11	Providing and laying in position Reinforced cement concrete for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridge upto 3.50 m height. The granite/ trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately) M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (KPWD 2022-23, V-I Page No.17, Item No.2.5.1)	Cum	3.82	3.82	10200.30	38954.95	3.82	38954.95	
E-12	Providing Thermo-Mechanically Treated bars of grade Fe-500D or more Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position, binding and anchoring to adjacent members wherever necessary complete as per Design including cost of material, labour, usage charges complete as per specifications. (The laps and wastages shall not be measured separately) (KWPD 2021-22, V-II, Item No.11.32, Page No.84)	Kgs	8026.34	8025.41	101.20	812171.39	8025.41	812171.39	
E-13	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x150x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572 - 2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications. (KPWD 2022-23, V-II Page No.17, Item No.6.33)	Sqm	354.20	354.20	1167.10	413386.82	354.20	413386.82	
	Sub Total Amount					2108020.00		2108020.00	
	Add 18.0% towards GST Charges					379444.00		379444.00	
	Grand Total Amount					2487464.00		2487464.00	

Certificate

1 The above work has been Completed satisfactorily

2 The debris has been removed and disposed from the work spot.

3 No. departmental issues are made to the contractor

Assisstant Engineer
Ward No.01
BBMP

Assisstant Exe. Engineer
Yelahanak Sub Division
BBMP

Executive Engineer
Yelahanak Division
BBMP